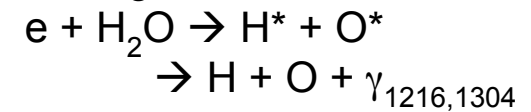


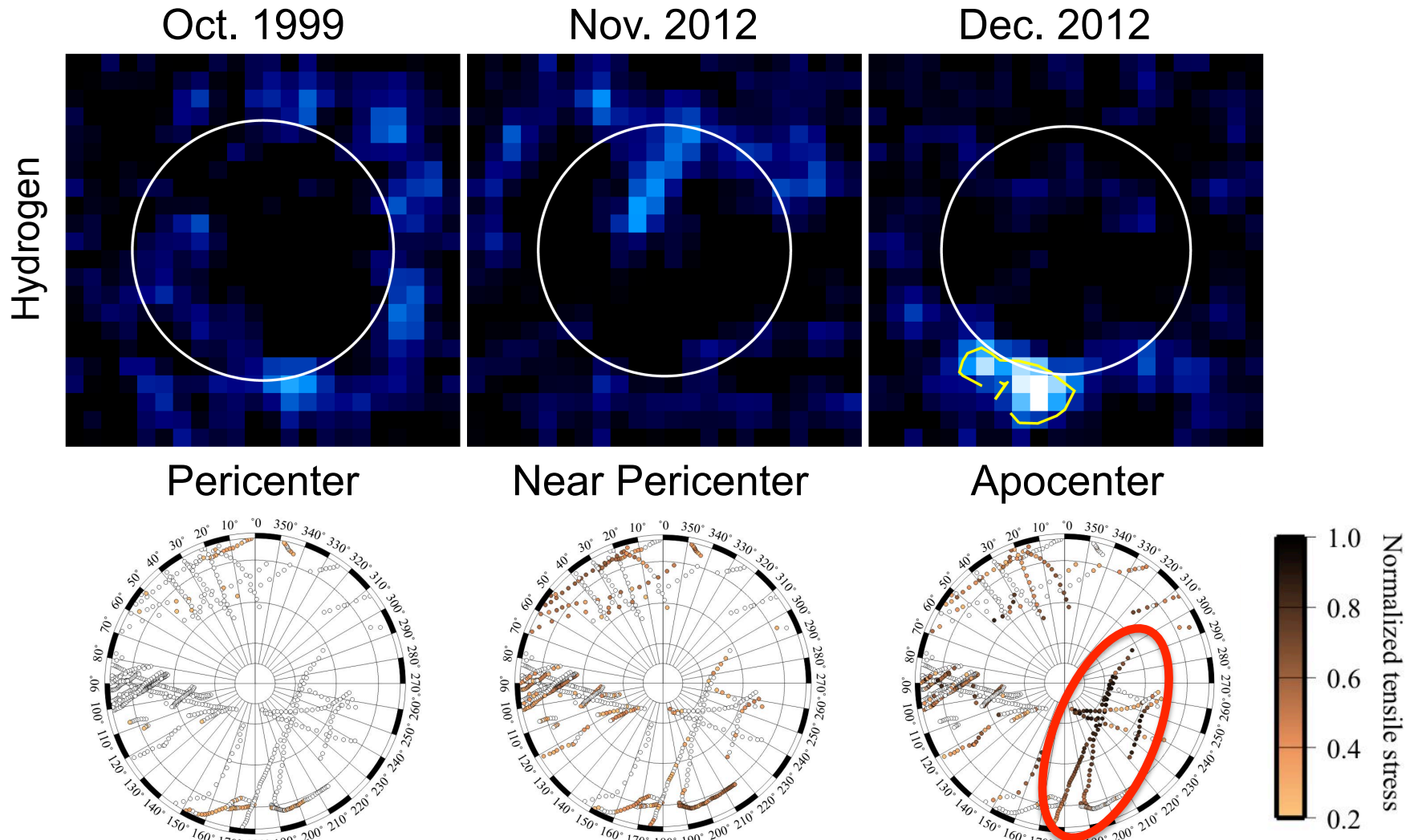
Figure 1 from Roth et al. 2014:  
sum of all images from 3 dates

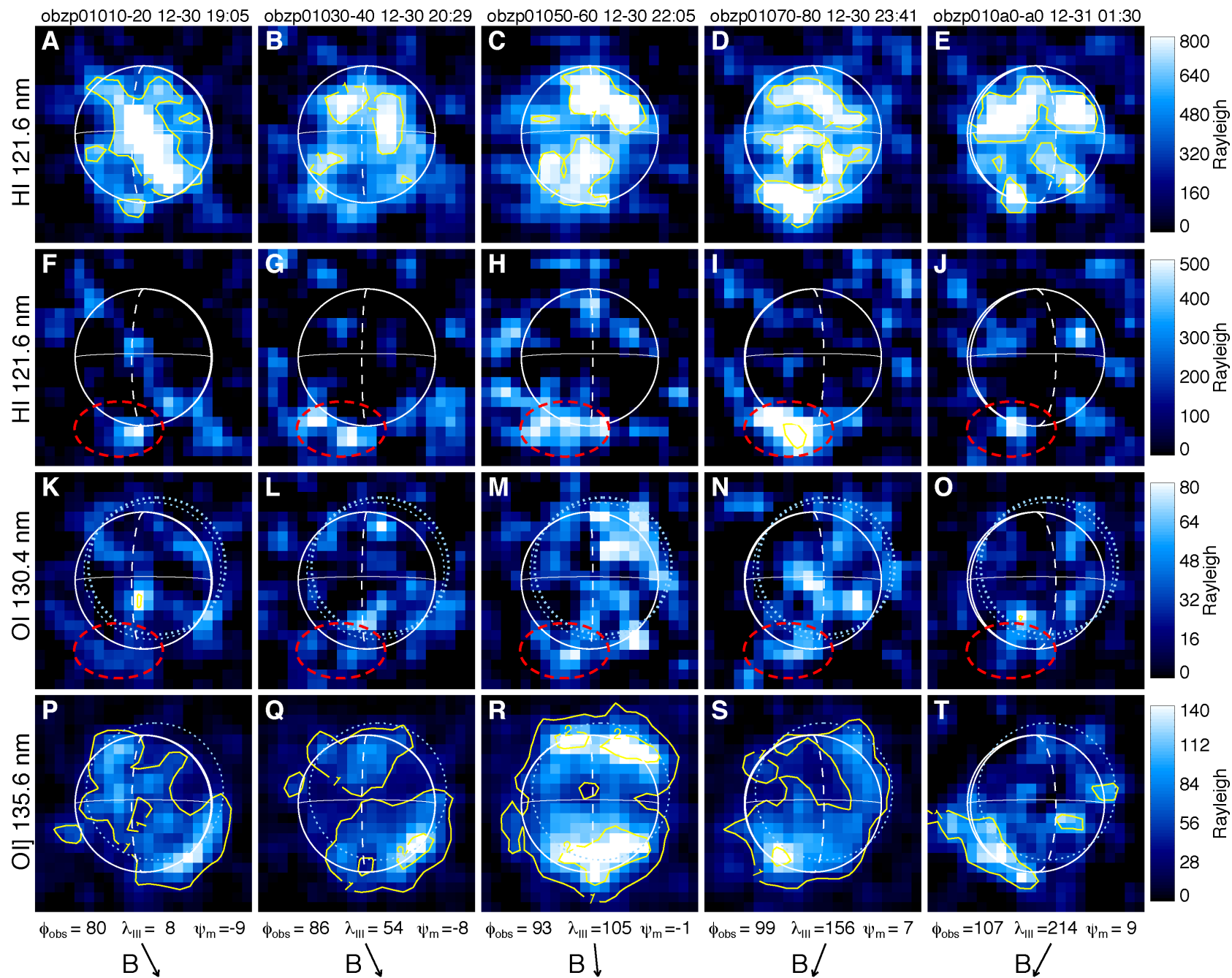
Jovian plasma electrons dissociate and excite neutrals in Europa's atmosphere. At some wavelengths, sunlight is also reflected from the satellite surface.

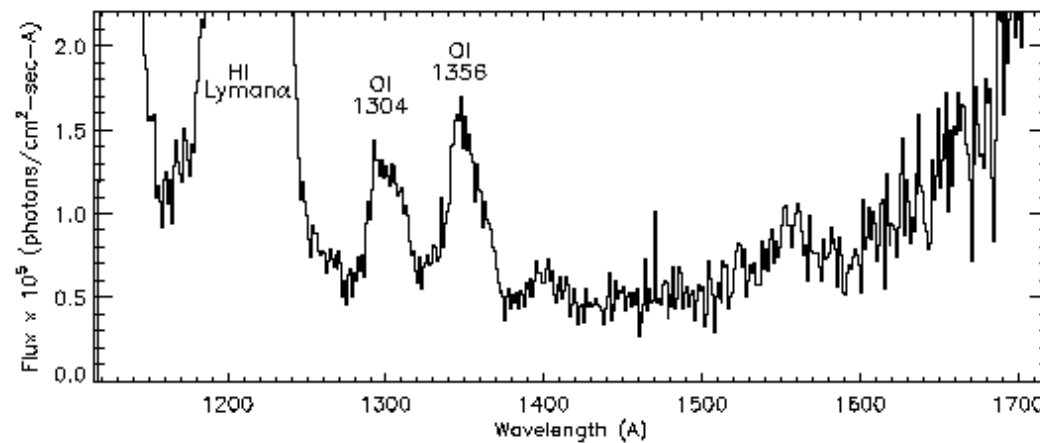
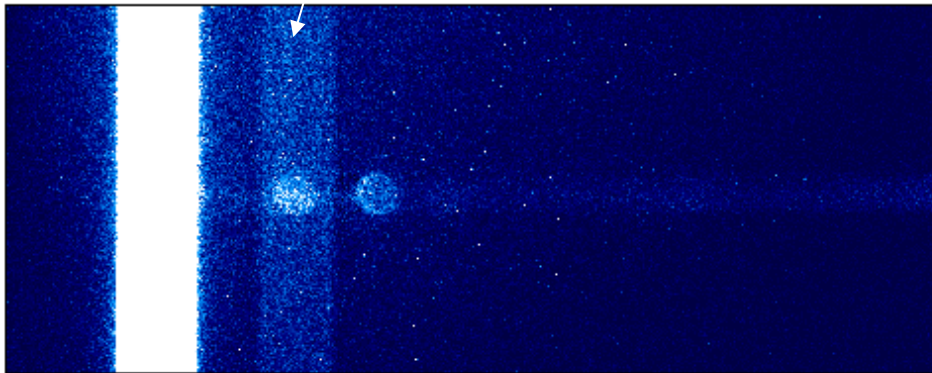
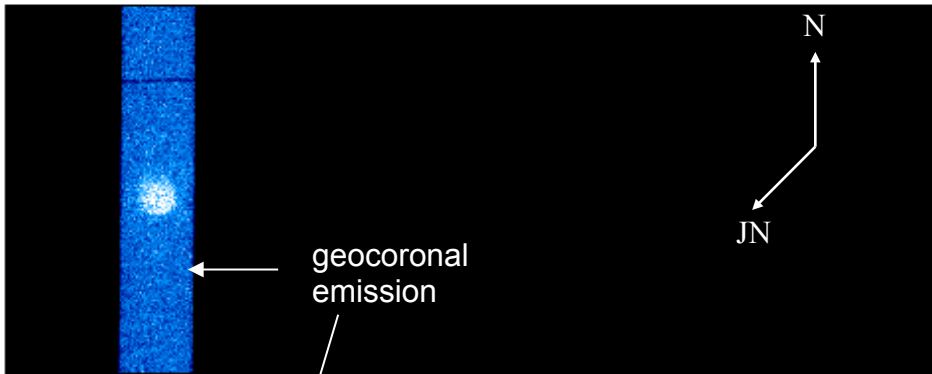
The only viable process to produce H and O emissions with the observed brightness ratios is



# Evidence for plume variability







## STIS data format

grating + slit larger than the satellite =  
imaging spectroscopy

produces a monochromatic image of the  
satellite at wavelengths where there is enough  
emission + reflected light

Reflected light component is readily  
determined by fitting the longer wavelength  
continuum, where all the light is reflected from  
the surface.

